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Jameco Part Number 214615
(EVC15N3)

DATA INCLUDES:

Specifications
Outline and Mounting
Connection Chart
Parts List
Schematics

CASE B MODELS

ECV5N6-1
ECV12N3.4
ECV15N3
ECV24N2.4

B

SPECIFICATIONS-ECV SERIES, CASE B, SINGLE OUTPUT

AC INPUT: 100/117/220/230/240 VAC, 47-440Hz (Derate 10% for 50Hz operation)

FUSING: See chart

DC OUTPUTS: See chart

LINE REGULATION: ± 0.05% for ± 10% line change

LOAD REGULATION: ± 0.05% for 50% load change

OUTPUT RIPPLE: 3mV Pk-Pk typical, 2mV RMS

TRANSIENT RESPONSE: 30usec for 50% load change

OVERLOAD AND SHORT CIRCUIT PROTECTION: Current limiting and foldback. Recovery automatic.

*OVERVOLTAGE PROTECTION: Fixed on all 5 volt units at 6.2 ± 0.4 volts

TEMPERATURE RATING: Full rating, 0-50°C in free air. Derate linearly to 40% at 70°C.

TEMPERATURE COEFFICIENT: 0.02%/°C max.

REMOTE SENSING: Standard. Open sense lead protection is built in.

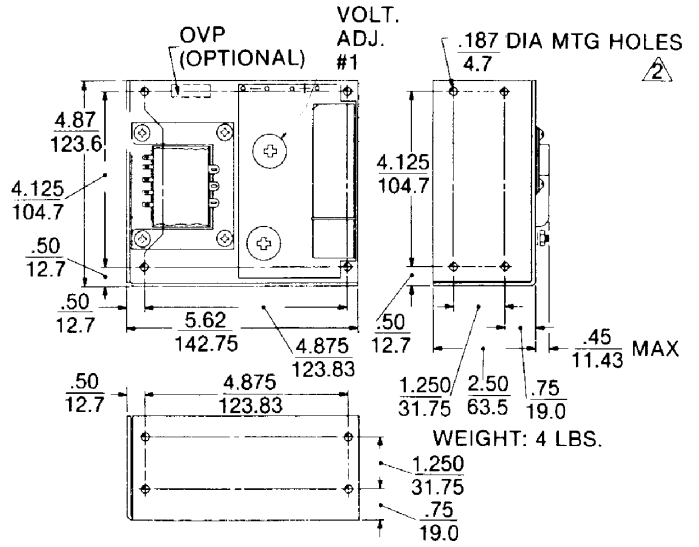
VIBRATION: per Mil-Std-810C. method 514.2, proc. X, curve AW (to 50Hz)

SHOCK: Per Mil-Std-810B, method 516, proc. V.

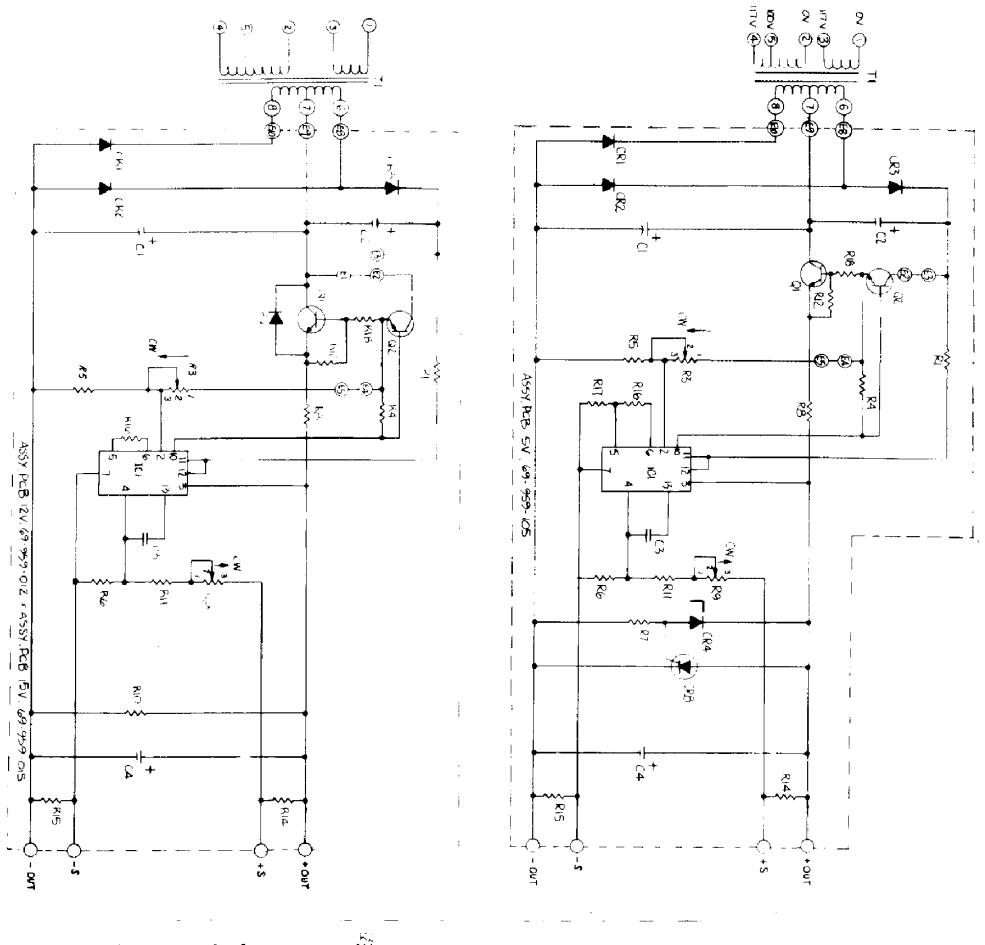
*Overvoltage protection modules available for 12, 15 and 24V models.

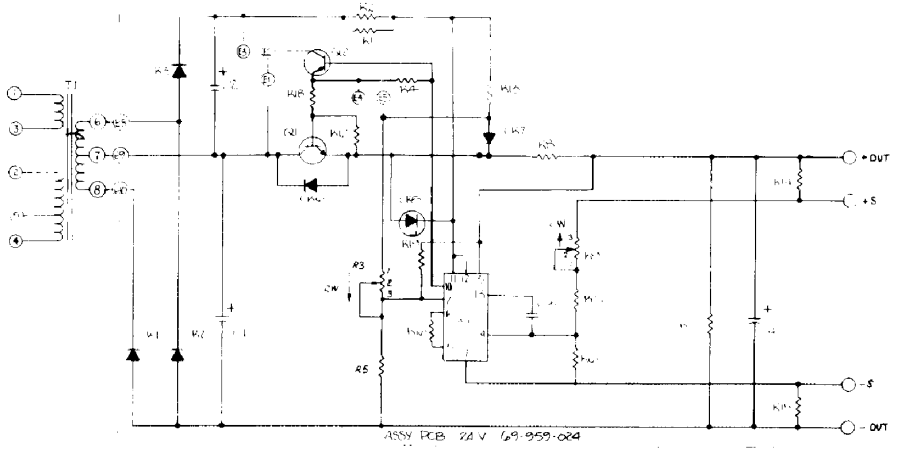
MODEL	RATING
ECV5N6-1	5V, 6A
ECV12N3.4	12V, 3.4A
ECV15N3	15V, 3A
ECV24N2.4	24V, 2.4A

AC CONNECTIONS AND FUSING			
INPUT VOLTS	CONNECT	POWER TO	FUSE
100	1-2,3-4	1,5	1.5A
117	1-2,3-4	1,4	1.5A
220	2-3	1,5	3/4A
230/240	2-3	1,4	3/4A



2 MTG HOLES ARE CORRECT SIZE FOR INSTALLATION OF #6-32 PEM NUT.





COMPONENT PARTS LIST
CASE B - SINGLE OUTPUT

REF.DES.	DESC.	MANUF. P/N	ACDC P/N	5N6-1	12N3.4	15N3	24N2.4
T1	Xfmr	ACDC		52432	52433	52434	52435
Q1	Xsistor	RCA 2N3771	54-031-016	*			
Q1	Xsistor	RCA 2N3772	54-031-017		*	*	*
C1	Cap	MAL TCG163U015N3L3P 16000/15V	54-668-067	*			
C1	Cap	MAL TCG732U035N3L3P 7300/35V	54-668-068		*	*	
C1	Cap	MAL TCG362U060N3L3P 3600/60V	54-668-069				*
C2	Cap	ILL 108RAR016B 1000/16V	62-708-024	*			
C2	Cap	ILL 107RAR035B 100/35V	62-708-026		*	*	
C2	Cap	ILL 476RAR050B 47/50V	62-708-027				*
C3	Cap	KEMET C320C682K2R 6800/100V	67-159-682	*			
C3	Cap	SPR 10TS-T47 470pf/1000V	52-231-471		*		
C3	Cap	VARA 2115 X7R100R 470pf/100V	67-159-471			*	
C3	Cap	SPR 10TS-T22 220pf/1000V	52-231-221				*
C4	Cap	ILL 227RAR016B 220/16V	62-708-025	*			
C4	Cap	ILL 107RAR035B 100/35V	62-708-026		*	*	
C4	Cap	ILL 476RAR050B 47/50V	62-708-027				*
CR1,2	Diode	MOT MR501	50-464-020		*	*	*
CR1,2	Diode	MOT MR751	50-464-095	*			
CR3	Diode	MOT 1N4004	50-464-003	*	*	*	*
CR4	Diode	MOT 1N752A	51-739-018	*			
CR5	Diode	MOT 1N752A	51-739-018				*
CR6	Diode	MOT 1N4004	50-464-003		*	*	*
CR7	Diode	MOT 1N4004	50-464-003				*
CR8	Scr	RCA C122F	52-714-042	*			
IC1	V. Reg.	723	66-780-000	*	*	*	*
Q2	Xsistor	RCA TIP31A	54-031-074	*	*	*	*
R1	Res	470 Ohm 5% 1/2W	50-461-471				
R1	Res	1.6K 5% 1/2W	50-461-162		*		
R1	Res	2.2K 5% 1/2W	50-461-222			*	
R1,2	Res	7.5K 5% 1/2W	50-461-752				*
R3,9	Pot	5K 20% 2W	59-561-502	*	*	*	*
R4	Res	2.2K 5% 1/2W	50-461-222	*	*	*	*
R5	Res	3.9K 5% 1/2W	50-461-392	*	*		
R5	Res	4.75K 1% 1/4W	54-354-366			*	
R5	Res	47K 5% 1/2W	50-461-473				*
R6	Res	2.1K 1% 1/4W	54-354-332	*			
R6	Res	9.76K 1% 1/4W	54-354-396		*		
R6	Res	8.87K 1% 1/4W	54-354-392			*	
R6	Res	6.49K 1% 1/4W	54-354-379				*
R7	Res	22 Ohm 5% 1/2W	50-461-220	*			
R8	Res	0.12 Ohm 5% 2W	52-064-128		*		
R8	Res	0.18 Ohm 5% 2W	52-064-188			*	
R8	Res	0.22 Ohm 5% 2W	52-064-228				*
R8	Jumper		68-999-011	*			
R10	Res	1K 5% 1/2W	50-461-102		*	*	
R10	Res	1.2K 5% 1/2W	50-461-122				*
R11	Jumper		68-999-006	*			
R11	Res	3.32K 1% 1/4W	54-354-351		*		
R11	Res	7.87K 1% 1/4W	54-354-387			*	
R11	Res	13K 1% 1/4W	54-354-412				*
R12	Res	22 Ohm 5% 1/2W	50-461-220	*			
R12	Res	2.2K 5% 1/2W	50-461-222		*	*	*
R13	Res	1K 5% 1/2W	50-461-102				*
R14,15	Res	6.8 Ohm 5% 1/2W	50-461-689	*	*	*	*
R16,17	Res	2.15K 1% 1/4W	54-354-333	*			
R16	Res	1K 5% 1/2W	50-461-102		*	*	*
R18	Res	2.7 Ohm 5% 1/2W	50-461-279	*			
R18	Jumper		68-999-006		*	*	*
R19	Res	20K 5% 1/2W	50-461-203				*